

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claim 2, amend claims 1, 3-5, 7, 9, 14-16, 22, and 25-27, and add new claims 38-39 as follows:

Listing of Claims:

1. (Currently Amended) A computer system, comprising:
an input device;
an output device;
a data storage device;
a processor coupled to the input device, the output device and the data storage device, the processor including an address bus, a control bus and a data bus to communicate address, control and data signals;
a memory device coupled to the processor, the memory device including address, data and command busses; and
~~a configuration circuit~~ at least one bi-stable relay device interposed between at least one of the address, control and data buses of the processor and the respective address, control and data buses of the memory device to selectively couple lines in at least one of the address, control and data busses of the processor to lines in at least one of the address, control and data busses of the memory device.
2. (Canceled)
3. (Currently Amended) The computer system of claim 1, wherein the ~~configuration circuit~~ at least one bi-stable relay device comprises one or more Micro-Electrical-Mechanical System (MEMS) relays formed within the memory device to selectively couple lines in the address, control and data busses of the processor to lines in the address, control and data busses of the memory device.

4. (Currently Amended) The computer system of claim 1, wherein the ~~configuration circuit~~ at least one bi-stable relay device is coupled to at least one of an address decoder, a command decoder and a read/write circuit in the memory device.

5. (Currently Amended) The computer system of claim 1, wherein the ~~configuration circuit~~ at least one bi-stable relay device comprises an address configuration circuit interposed between the address bus of the processor and the address bus of the memory device, and further wherein the ~~configuration circuit~~ at least one bi-stable relay device includes a data configuration circuit interposed between the data bus of the processor and the data bus of the memory device.

6. (Original) The computer system of claim 5, wherein the address configuration circuit and the data configuration circuit are coupled to a configuration control line.

7. (Currently Amended) The computer system of claim 1, wherein the ~~configuration circuit~~ at least one bi-stable relay device comprises a control configuration circuit interposed between the control bus of the processor and the control bus of the memory device.

8. (Original) The computer system of claim 7, wherein the control configuration circuit is coupled to a configuration control line.

9. (Currently Amended) The computer system of claim 1, wherein the memory device comprises more than one memory die, and the ~~configuration circuit~~ at least one bi-stable relay is interposed between the processor and the more than one memory die to selectively couple at least one of the memory die to the processor.

10. (Original) The computer system of claim 1, wherein the memory device comprises a DRAM memory device.

11. (Original) The computer system of claim 1, wherein the memory device comprises a SRAM memory device.

12. (Original) The computer system of claim 1, wherein the memory device comprises a non-volatile memory device.

13. (Original) The computer system of claim 1, wherein the memory device comprises a flash memory device.

14. (Currently Amended) A memory device, comprising:
a memory cell array having a plurality of individually addressable memory locations, the memory cell array being coupleable to one or more signal busses of an external device; and

a non-volatile configuration circuit interposed between the memory cell array and the one or more signal busses of the external device to selectively couple portions of the one or more busses to the memory cell array, the non-volatile configuration circuit operable to maintain a selected state independent of a connection to a power source.

15. (Currently Amended) The memory device of claim 14, wherein the non-volatile configuration circuit comprises at least one bi-stable relay device.

16. (Currently Amended) The memory device of claim 14, wherein the non-volatile configuration circuit comprises one or more Micro-Electrical-Mechanical System (MEMS) relays to selectively couple portions of the one or more busses to the memory cell array.

17. (Original) The memory device of claim 16, wherein the one or more busses comprise a plurality of discrete signal lines, and further wherein the MEMS relays selectively couple the signal lines to the memory cell array.

18. (Original) The memory device of claim 14, further comprising:
an address bus coupled to the memory cell array to transfer a selected memory address location from a corresponding bus of the external device to the memory cell array;
a data bus coupled to the memory cell array to transfer data from a corresponding bus of the external device to the selected memory address location in the memory cell array;
an address configuration circuit coupled to the address bus that selectively couples one or more signal lines in the address bus to the memory cell array; and
a data configuration circuit coupled to the data bus that selectively couples one or more signal lines in the data bus to the memory cell array.

19. (Original) The memory device of claim 18, wherein the address bus further comprises an address decoder, and the data bus further includes a read/write decoder.

20. (Original) The memory device of claim 18, further comprising:
a control bus coupled to the memory cell array to transfer selected control signals from a corresponding bus of the external device to the memory cell array; and
a control configuration circuit coupled to the control bus that selectively couples one or more signal lines in the control bus to the memory cell array.

21. (Original) The memory device of claim 20, wherein the control bus further comprises a command decoder.

22. (Currently Amended) A selectively configurable memory device, comprising:
a first memory die having a first memory capacity;
a second memory die having a second memory capacity; and
a non-volatile configuration circuit operable to couple either or both of the first memory die and the second memory die to external circuits to selectively obtain a memory device having a third memory capacity, the non-volatile configuration circuit operable to maintain a selected state independent of a connection to a power source.

23. (Original) The selectively configurable memory device of claim 22, wherein the first memory capacity is approximately equal to the second memory capacity, and the third memory capacity is approximately equal to a sum of the first memory capacity and the second memory capacity.

24. (Original) The selectively configurable memory device of claim 22, wherein the third memory capacity is approximately equal to one of the first memory capacity and the second memory capacity.

25. (Currently Amended) The selectively configurable memory device of claim 22, wherein the non-volatile configuration circuit is further coupled to a plurality of signal pins to couple signals from the external circuits to the memory device.

26. (Currently Amended) The selectively configurable memory device of claim 22, wherein the non-volatile configuration circuit includes at least one bi-stable relay device.

27. (Currently Amended) The selectively configurable memory device of claim 22, wherein the non-volatile configuration circuit comprises one or more Micro-Electrical-Mechanical System (MEMS) relays operable to couple either or both of the first memory die and the second memory die to the external circuits.

28. (Original) The selectively configurable memory device of claim 22, further comprising a third memory die having a fourth memory capacity.

29-37. (Canceled)

38. (New) The memory device of claim 14, wherein the selected state is reversible.

39. (New) The selectively configurable memory device of claim 22, wherein the selected state is reversible.